Index to Volume XV
American Gas Association Monthly 1933

Authors

A

	Page	Issue
Adams, E. C.—Performance Record of Sectional House Heating	154	Apr.
Apmann, A. M.—Trend of Water Heater Sales from the Manufacturer's Viewpoint	101	Mar.
Ayres, L. M.—"Share-the-Work" Program	205	May

B

Baril, A.—Position of the Gas Industry in France	453	Nov.
Belden, Clark—New Englanders Active in Association Work 62 Years	242	June
Bonsall, R. F.—Public Relations and the Depression	332	Aug.
Bratesman, Stuart—The Story of Industrial Gas Told by Window Displays	125	Apr.
Bridge, A. F.—Effect of Earthquake on Southern California Gas Systems	175	May
Buskmann, A.—Expansion Correction of Contraction Coefficient of Orifices	476	Nov.

C

Cashman, W. J.—Cooperative Merchandising Increases Load and Aids Dealers	94	Mar.
Chapman, D. W.—Research Points Way to Silent Industrial Gas Utilization	467	Nov.
Cliff, Herbert E.—Summary of Accounting Sessions at Convention	425	Oct.
Conner, R. M.—Gas Mixing	188	May
Glimpse of Research at A. G. A. Testing Laboratory	310	Aug.
Surmounting Cooking Competition	90	Mar.
Cook, W. P.—Corrosion Prevention in Water Heater Storage Tanks	345	Aug.
Corson, S. H.—What Is To Be Done About the Troublesome Customer?	152	Apr.
Cortelyou, Geo. B.—The Gas Industry	41	Feb.

D

DellPlain, Morse—Domestic Cooking Load Is the Bread-and-Butter of the Industry	82	Mar.
What Price New Business?	426	Oct.
Derwent, W. E.—Taking Part in Association Work	505	Dec.
Deuber, Carl G.—Accelerating Seed Germination with Gas	313	Aug.
Observations of Shade Trees in the Vicinity of Gas Leaks	465	Nov.
Stimulative Effects of Gas on Small Trees	380	Sept.
Devlin, E. J.—30,000 Refrigerators	138	Apr.
Volume Water Heating—A Complementary Load	185	May
Donlan, C.—Building Good Customer Relations	277	July
Doyle, Fred F.—Safety Precautions During Repair of High Pressure Gas Mains	499	Dec.
Drumm, Streuby L.—History of Southern Gas Association	15	Jan.

E

East, H. T.—Building Good-Will	385	Sept.
Escher, Fritz—International Gas Parley Promotes Gas Progress	410	Oct.
Ewing, Dr. Scott—Application of Pipe Coatings and Corrosion Research to Southern Soils	298	July

F

Finch, Stanley B.—Promotional Rate for Volume Water Heating Will Improve Load Factor	23	Jan.
Fisk, Rose Mary—Gas Used Throughout Model Home	487	Dec.
Forward, Alexander—The Association's Job	411	Oct.
Stability of Gas Industry Demonstrated in South	235	June
French, C. H.—Church Kitchens	335	Aug.
Gas Is Important Factor in the Roadside Diner	433	Oct.
Oil vs. Gas-Burning Ranges	210	May

G

Garrett, Ray—Pending Legislation Concerning Utilities	506	Dec.
Goodwin, F. M.—Report on Portable Equipment in Distribution Work	216	May
Goris, C. W.—Account Designation Plan for Utility Companies	278	July

H

Hartman, H. W.—The Beal Medal	9	Jan.
Hazard, W. A.—Safety Precautions While Making Volume and Rock Pressure Tests	435	Oct.
Hewitt, Arthur—The Gas Industry	79	Mar.
The Gas Industry in America	403	Oct.
The Industry's Outlook	128	Apr.
Hodge, William H.—Advertising from the Viewpoint of the Utilities	65	Feb.
Hoefer, F. S.—Cooperative Merchandising Increases Load and Aids Dealers	94	Mar.
Hooker, H. Lester—A New Concept in Utility Regulation	414	Oct.
Huff, C. F.—Safety Precautions in Drilling Wells for Gas and Oil	388	Sept.
Hutcheson, H. F.—Transferring Final Charges vs. Rendering Final Bills	250	June

J

Jenkins, Paul A.—165 House Heating Jobs a Day in Chicago	489	Dec.
Jesper, H. R.—Utilizing Plumber Dealer to Receive Service Applications	99	Mar.
Jones, W. L.—Increases Gas Heating Sales by Aggressive Campaign	317	Aug.

K

Ketchum, Carlton G.—An Outsider Looks at the Natural Gas Industry	162	Apr.
Kruger, R. E.—Study of Breeze Problem in By-Product Coke Oven Plant	295	July

L

	Page	Issue
Lewis, R. D.—Energetic Campaign to Make Housewives Conscious of Gas Economy	179	May
Lindsley, A. V. S.—Does the Industry Want the Domestic Kitchen Load?	333	Aug.
Loebell, Henry O.—The Competitive Market for Industrial Fuels	428	Oct.
Long, H. J.—Large Volume Water Heating as Summer Load	234	June

M

Malecki, George—American Gas Industry Through Polish Eyes	11	Jan.
Malone, J. A.—Gas Featured at National Power Show	49	Feb.
Gas Industry Displays at National Metal Exposition	474	Nov.
Manier, Ralph L.—What Does Gas Utilization Data Mean to You?	255	June
Mattocks, E. O.—Fundamentals of Combustion Space Requirements in High Temperature Gas Furnaces—Part I	289	July
Part II	323	Aug.
McCormick, E. E.—New Data on High Temperature Combustion	468	Nov.
McKinley, Joseph—Philadelphia Company Utilities of Pittsburgh Sell 3,370 Radiant Heaters in Month	280	July
Milener, Eugene D.—Summer Air Conditioning with Gas Heat Energy	85	Mar.

N

Nealey, J. B.—Continuous Glass Furnace and Automatic Bottle Forming Machines	18	Jan.
Gas Furnishes Heat, Light and Power in Big Office Building	374	Sept.
Heat Treating Rifle Parts with Gas Furnace	460	Nov.
Rubber Tires Made by Gas at Chicago Fair	321	Aug.
Sewage to Fertilizer in Rotary Dryers	106	Mar.
Steel Enameling in Automatic Gas Furnaces	238	June
Terra Cotta Makers Find Gas Meets Color Demand	53	Feb.

P

Parsons, Floyd W.—Graphic Picture of Smoke Evil Portrayed in New Book	316	Aug.
Patterson, Wright A.—Stop It Now	52	Feb.
Perkins, D. H.—Public Information Aspects of the Natural Gas Changeover in San Diego	27	Jan.
Perry, J. A.—The Gum Problem in the Distribution System	217	May
Redrilling of Manufactured Gas Appliance Burners for Adaption to Higher B.t.u. Gas	165	Apr.
Review of Technical Section Activities	439	Oct.
Perry, Thomas J.—Adapting Machines to Preparation of Field Orders	257	June
Person, Charles W.—All Roads at Fair Lead to Gas Industry Hall	227	June
The Gas Industry at a Century of Progress	119	Apr.
Leaders of Industry to View Gas Exhibits	191	May
100 Gas Executives Attend Chicago Ceremony	267	July
Pettyjohn, E. S.—The Recirculated Oil Gas Process	340	Aug.

R

Ransom, R. A.—Allocation of Costs of Natural Gas Production and Pipe Line Companies	368	Sept.
Ratcliffe, George W.—Pittsburgh Campaign Sells 14,127 Space Heaters in 24 Days	493	Dec.
Rehfeldt, F. H.—Application of Gas Fuel to Coal-Fired Boilers	158	Apr.
Ryan, A. P.—Publicity and Industry	436	Oct.
Ryan, Paul—Monthly Summary of Gas Company Statistics	32	Jan.
(Complete listing, Page 7 and 8 under *Statistics*.)		

S

Schneidewind, Richard—New Method of Polishing Gray and Malleable Irons for Metallographic Examinations	13	Jan.
Scott, Charles—Observation of Contact Employees	206	May
Sellman, F. E.—Electrolux Introduces Air-Cooled Refrigerator	136	Apr.
Shannahan, J. N.—Stockholders of Midland to be Kept Posted	187	May
Sharp, J. Ralph—Safety Precautions in Compressor Station Operation and Maintenance	482	Nov.
Smith, Cecil W.—Small Automatic Stokers vs. Natural Gas	253	June
Smith, H. W. Jr.—Corrosion Prevention in Water Heater Storage Tanks	345	Aug.
Proposed A. G. A. Listing Requirements for Gas, Pressure, and Temperature Control Accessories	463	Nov.
Protective Relief and Gas Shut-Off Devices for Domestic Water Heater Tanks	501	Dec.

T

Tarratt, Frank P.—Gas Headed Toward Greater Service Throughout the World	405	Oct.
Tharp, E. M.—Executive Evaluation of Sales Activities	146	Apr.
Executive Responsibility for Sales Promotion	421	Oct.
Tomkins, S. S.—Gas Detection Instruments	511	Dec.
Turner, G. W.—Competitive Situation in Commercial Sales	284	July

U

Upthegrove, Clair—Furnace Atmospheres and Steel	181	May

W

Waddick, J. G.—Importance of Following Up Missed Meter Readings	153	Apr.
Watts, Arthur P.—Effect on Wall Tile Glazes of Direct-Firing	131	Apr.
Weymouth, T. R.—Memorial Tribute to Henry C. Morris	464	Nov.
Williams, H. J.—Pittsburgh Domestic Appliance Show Features Industrial Gas Exhibit	509	Dec.
Wills, Frank—Use of High B.t.u. Oil Gas During a Peak Load	240	June
Wright, F. R.—A. G. A. Testing and Certification Program Expanded to Include Appliance Accessories	200	May
Standards for Gas Appliances and Their Relation to Industrial Progress	390	Sept.

Z

Zillessen, Clara H.—Home Service, the Dorothy Dix of the Gas Industry	156	Apr.

Subjects

A

	Page	Issue
Abell, H. C., retires	367	Sept.
Accident prevention:		
gas detection instruments—S. S. Tomkins	511	Dec.
Dr. Drinker studies methylene blue treatment	100	Mar.
protective relief and shut-off devices for domestic water heater tanks—H. W. Smith, Jr.	501	Dec.
safety precautions—		
during repair of high-pressure gas mains—F. F. Doyle	499	Dec.
in compressor station operation and maintenance—J. R. Sharp	482	Nov.
in drilling wells—C. F. Huff	388	Sept.
while making volume and rock pressure tests—W. A. Hazard	435	Oct.
Accounting:		
account designation plan for utility companies—C. W. Goris	278	July
commercial bank statement analysis from the depositor's viewpoint	469	Nov.
customer relations		
see *Customer Relations*		
meter readings, missed, following up—J. G. Waddicks	153	Apr.
monthly balance sheet and income account, facilitating work on	384	Apr.
pending legislation concerning—R. Garrett	506	Dec.
preparation of field orders, adapting machines to—T. J. Perry	257	June
section activities—		
committees coordinate activities	20	Jan.
general committee organizes regional groups	59	Feb.
preservation of records committee meets	207	May
summary of convention sessions—H. E. Cliff	425	Oct.
Toronto entertains committees	251	June
transferring final charges vs. rendering final bills—H. F. Hutcheson	250	June
utilizing plumber dealer to receive service applications—H. R. Jesper	99	Mar.
Advertising:		
campaign to make housewives gas conscious—R. D. Lewis	179	May
Consolidated Gas of N. Y. merits high award	522	Dec.
Lone Star Gas system wins first place in contest	339	Aug.
P. U. A. A. contest to close	28	Jan.
P. U. A. A. prize-winning ads offered in book	256	June
publicity and industry—A. P. Ryan	436	Oct.
utilities viewpoint of—W. H. Hodge	65	Feb.
window displays tell story of industrial gas—S. Bratesman	125	Apr.
Affiliated association activities		
	51	Feb.
	97	Mar.
	149	Apr.
	198	May
	247	June
	331	Aug.
	379	Sept.
Affiliated associations, history of:		
New England Gas Association—Clark Belden	242	June
Southern Gas Association—S. L. Drumm	15	Jan.
Air conditioning:		
course opens	93	Mar.
"home of controlled climate"	458	Nov.
Johns Hopkins correspondence course in	28	Jan.
New Jersey finds promising field	163	Apr.
research in residential summer air conditioning—E. D. Milener	85	Mar.
Rutgers home study course in	18	Jan.
	89	Mar.
American Gas Association:		
convention		
see *Convention, A. G. A.*		
executive board in session in Chicago	497	Dec.
laboratory exposes gas "savers"	457	Nov.
managing director's report—A. Forward	411	Oct.
nominations announced for association year	273	July
participates in meeting of master plumbers	319	Aug.
president's address—A. Hewitt	403	Oct.
statistics		
see *Statistics*		
American Gas Journal makes bow in new dress	212	May
Appalachian society names officers	50	Feb.
Appliance and equipment developments	34	Jan.
Appliance inspection and adjustments	39	Feb.
Appliance standards:		
A. G. A. certification program expanded—F. R. Wright	200	May
A. G. A. requirements approved as American standard	466	Nov.
Approval seal mandatory on approved appliances	202	May
changes in water heater requirements	343	Aug.
laboratory inspectors visiting manufacturers' plants	471	Nov.
proposed A. G. A. requirements for gas, pressure and temperature control accessories—H. W. Smith, Jr.	463	Nov.
relation to industrial progress—F. R. Wright	390	Sept.
Appliance testing:		
A. G. A. laboratory exposes gas "savers"	457	Nov.
research at A. G. A. testing laboratory—R. M. Conner	310	Aug.
Associated Gas employees win awards in Magee contest	134	Apr.
Association activities, taking part in—W. E. Derwent	505	Dec.
Automatic stokers, small, vs. natural gas—C. W. Smith	253	June
Awards:		
Addison B. Day offers medal of honor	362	Sept.
Beal medal—		
history of—H. W. Hartman	9	Jan.
S. S. Tomkins honored with	424	Oct.
Consolidated Gas advertising in N. Y. merits high award	522	Dec.
McCarter medals—		
	74	Feb.
	107	Mar.
	246	June
	302	July
	464	Nov.
meritorious service medal to be given for heroic act	207	May
Munroe award—		
coveted by industry	199	May
Hainsworth wins	438	Oct.

B

Barnum, D. D., made director of American Standards Association	48	Feb.
Beal medal—		
awarded to S. S. Tomkins	424	Oct.
history of—H. W. Hartman	9	Jan.
Belden, Clark, named secretary of N. E. G. A.	31	Jan.
Bill complaints, handling of—S. H. Corson	152	Apr.
Book reviews:		
Deville, E. St.-Claire—Manuel de Chimie Gaziere	100	Mar.
Finley, G. H.—Handbook of Butane-Propane Gases	33	Jan.
Greenwood, Ernest—The Great Delusion	155	Apr.
Le Fevre, R. N.—Domestic Utilization of Gas	25	Jan.

	Page	Issue
Mallory, G. D.—The Insulation of New and Old Houses	249	June
McCarter, Thomas N.—One Phase of a Jerseyman's Activities	249	June
Merrifield, William—Public Utility Rate Structures	249	June
Obermeyer, Henry—"Stop That Smoke!"	316	Aug.
Read, William Thornton—Industrial Chemistry	342	Aug.
Smith, N. S.—Domestic Utilization of Gas	25	Jan.
Housing Objectives and Programs—published by The President's Conference on Home Building and Home Ownership	25	Jan.
1933 Guide of the American Society of Heating and Ventilating Engineers	199	May
Breeze, study of, in by-product coke oven plant—R. E. Kruger	295	July
Breweries, modern, use of gas in	434	Oct.
Brick testing, Australia installs gas furnace for	50	Feb.
Brill, A. P., elected president of Ruud Co.	73	Feb.
British gas industry, the—F. P. Tarratt	405	Oct.
Brown, E. C., leaves rare pictures to A. G. A.	237	June
Building heating:		
gas furnishes heat, light and power in office building—J. B. Nealey	374	Sept.
Yale Divinity school uses gas heat	124	Apr.
see also *House Heating*		
Burners:		
application of gas to coal-fired boilers—H. F. Rehfeldt	158	Apr.
redrilling of appliance burners for adaption to higher B.t.u. gas—J. A. Perry	165	Apr.
see also *Combustion*		
Butane:		
plant's first year shows good results	215	May
butane-air mixing at laboratory	203	May

C

Canadian gas industry expands	187	May
Canadians to have free gas supply	5	Jan.
Carbonization study forms tenth report	389	Sept.
Century of Progress Exposition:		
all-gas masonite home exhibited	373	Sept.
all roads lead to gas industry hall—C. W. Person	227	June
appliances and equipment to be featured (illustrations)	196	May
features kitchens of many lands	376	Sept.
gaseous lighting wins	309	Aug.
gas fuel used throughout popular resort	326	Aug.
gas industry at—C. W. Person	119	Apr.
gas to be featured at	4	Jan.
glimpses of Chicago's wonder city	142	Apr.
industry's leaders to view exhibits—C. W. Person	191	May
100 gas executives attend ceremony—C. W. Person	267	July
progress in kitchens told in miniatures	330	Aug.
views of gas exhibit	269	July
	328	Aug.
Ceramics:		
effect of direct-firing on wall tile glazes—A. P. Watts	131	Apr.
terra cotta makers find gas meets color demand—J. B. Nealey	53	Feb.
Changeover, San Diego, public information aspect of—D. H. Perkins	27	Jan.
Chicago Exposition		
see *Century of Progress Exposition*		
Chicago gas industry—83 years of A Century of Progress	347	Aug.
Church kitchens—C. H. French	335	Aug.
Code		
see *N.R.A. Code*		
Coke breeze, study of, in by-product coke oven plant—R. E. Kruger	295	July
Combustion:		
elimination of noise in industrial gas burners—D. W. Chapman	467	Nov.
high-temperature combustion, new data on—E. E. McCormick	468	Nov.
space requirements in high-temperature furnaces—E. O. Mattocks		
Part 1	289	July
Part 2	323	Aug.
Commercial bank statement, analysis from depositor's viewpoint	469	Nov.
Commercial sales, competitive situation in—G. W. Turner	284	July
Consolidated Gas shifts Obermeyer, Crone, Nast and Weeks	264	Apr.
Convention, A. G. A.:		
industry rivets attention on	355	Sept.
international good will prevails at Chicago	399	Oct.
many nations to attend international parley	308	Aug.
Cooking, domestic:		
advertising campaign to hold domestic load—R. D. Lewis	179	May
A. G. A. promotional program	7	Jan.
consumption data on tests	386	Sept.
does the industry want the kitchen load?—A. V. A. Lindsley	333	Aug.
domestic load—the bread-and-butter of the industry—M. DellPlain	82	Mar.
surmounting competition—R. M. Conner	90	Mar.
Cooking, commercial:		
all gas cookery at National food show	3	Jan.
oil vs. gas-burning ranges—C. H. French	210	May
Corrosion		
see *Pipe Corrosion*		
Cost allocation of natural gas production and pipe line companies—R. A. Ransom	368	Sept.
Customer relations:		
building good customer relations—C. Donlan	277	July
creating good-will—H. T. East	385	Sept.
handling bill complaints—S. H. Corson	152	Apr.
observation of contact employees—C. Scott	206	May
public relations and the depression—R. F. Bonsall	332	Aug.
Customers' accounting		
see *Accounting*		

D

Day, Addison B., elected member of A. G. A. board	498	Dec.
Dealer cooperation		
see *Trade Relations*		
Detection instruments, gas—S. S. Tomkins	511	Dec.
Diner, roadside, gas important factor in—C. H. French	433	Oct.
Distribution:		
committee meeting	260	June
earthquake effect on Southern Calif. systems—A. F. Bridge	175	May
engineers to meet in Pittsburgh	110	Mar.
gum problem, the—J. A. Perry	217	May
mechanical main "stopper" developed	111	Mar.
portable equipment in distribution work—F. M. Goodwin	216	May
conference—		
committee lays plans for conference	68	Feb.
engineers to meet in Pittsburgh	110	Mar.
meeting held in Pittsburgh	214	May
Domestic load:		
does the industry want the kitchen load?—A. V. A. Lindsley	333	Aug.
the bread-and-butter of the industry—M. DellPlain	82	Mar.
see also *Cooking*		
Kitchen Planning		

E

	Page	Issue
Earthquake effect on Southern Calif. gas systems—A. F. Bridge	175	May
Eastern natural gas sales conference to be held	64	Feb.
Easton gas show aided by manufacturers and dealers	155	Apr.
Education:		
air conditioning course opens	93	Mar.
appliance course to open at Columbia	283	July
Brooklyn Poly plans course in industrial gas engineering	337	Aug.
domestic appliance course at N. Y. U.	104	Mar.
gas engineers graduated from Johns Hopkins	274	July
gas men enroll in Columbia home study course	495	Dec.
gas school opens at Ames, Iowa	477	Nov.
Johns Hopkins honors student	12	Jan.
Merritt awarded A. G. A. scholarship	459	Nov.
natural gas engineering course offered at Okla. U.	108	Mar.
preparing correspondence course in air conditioning	28	Jan.
Rutgers University:		
home study course in air conditioning	18	Jan.
many enroll to study air conditioning	89	Mar.
Swing holds A. G. A. fellowship at W. Va. University	498	Dec.
Wobbeking earns scholarship at Johns Hopkins	477	Nov.
Electrolux introduces air-cooled refrigerator	136	Apr.
Employee public speaking awards go to Associated Gas	134	Apr.
Employee training:		
see *Customer Relations Education*		
Employment—"share-the-work" programs—L. M. Ayres	205	May
England introduces infra-red rays to fight disease	141	Apr.
Exhibitions:		
A. G. A. members to exhibit at chemical show	477	Nov.
A. G. A. participates in meeting of master plumbers	319	Aug.
gas appliances displayed at N. Y. show	320	Aug.
industry displays at National Metal exposition—J. A. Malone	474	Nov.
manufacturers and dealers aid Easton show	155	Apr.
National food show	3	Jan.
National hotel exposition	6	Jan.
National power show—J. A. Malone	49	Feb.
New Jersey Gas Association sponsors appliance show	326	Aug.
Pittsburgh domestic appliance show features industrial gas exhibit—H. J. Williams	509	Dec.
thousands view exhibits of Philadelphia Gas Works	500	Dec.
see also *Century of Progress Exposition*		

F

Foreign:		
British gas industry—F. P. Tarratt	405	Oct.
French gas industry—A. Baril	453	Nov.
French engineers to study industry	93	Mar.
gas production in important countries	57	Feb.
German gas company increases sales	215	May
overseas delegation sees gas at work in U. S.	447	Nov.
visitors to see American cities	361	Sept.
Forging:		
A. G. A. presents new work on	63	Feb.
French gas industry—A. Baril	453	Nov.

G

Gas detection instruments—S. S. Tomkins	511	Dec.
Gas development in Santa Monica district	26	Jan.
Gas industry:		
address—Cortelyou, George B.	41	Feb.
address—Hewitt, Arthur	79	Mar.
British—F. P. Tarratt	405	Oct.
in America, the—Arthur Hewitt	403	Oct.
increased sales in money panic of 1907	144	Apr.
outlook of—Arthur Hewitt	128	Apr.
picture commemorates first display in America	171	May
planning for greater sales—C. N. Lauer	419	Oct.
Polish viewpoint of—George Malecki	11	Jan.
revenues decline in 1932	5	Jan.
stability demonstrated in South—A. Forward	235	June
statistics		
see *Statistics*		
exhibit		
see *Century of Progress Exposition*		
Gas makes fewer chimneys to sweep	496	Dec.
Gas production—statistics covering important countries	57	Feb.
German gas company increases sales	215	May
Goodenough, Sir Francis, sees worldwide prosperity	241	June
Government ownership, voters reject	497	Dec.
Gum problem in distribution systems—J. A. Perry	217	May

H

Historical:		
gas industry increased sales in money panic of 1907	144	Apr.
picture commemorates first display of gas in America	171	May
Holders:		
purging of	260	June
Rochester holder monument of good will	339	Aug.
Home service:		
American home economics convention	105	Mar.
committee meeting	61	Feb.
Dorothy Dix of the gas industry—C. H. Zillessen	156	Apr.
gasettes	62	Feb.
	105	Mar.
helps to build load in Philadelphia	510	Dec.
in a modernistic setting	282	July
meeting at N. E. gas convention	104	Mar.
New England directors meet	61	Feb.
women's magazines stress value of gas	387	Sept.
see also *Kitchen Planning*		
House cooling:		
see *Air Conditioning*		
House heating:		
aggressive campaign increases sales—W. L. Jones	317	Aug.
165 jobs a day in Chicago—P. A. Jenkins	489	Dec.
Philadelphia utilities sell 3370 radiant heaters—J. McKinley	280	July
Pittsburgh campaign sells 14,137 space heaters—G. W. Ratcliffe	493	Dec.
plan to uncover oil competition	245	June
section, performance record of—E. C. Adams	154	Apr.
"House of Years" uses gas throughout—Rose Mary Fiske	487	Dec.

I

Illumination:		
see *Lighting*		
Industrial gas:		
application of gas to coal-fired boilers—H. F. Rehfeldt	158	Apr.
bibliography of industrial publicity	63	Feb.
	336	Aug.
competitive market for industrial fuels—H. O. Loebell	428	Oct.
competitive situation in commercial sales—G. W. Turner	284	July
forging, A.G.A. presents new work on	63	Feb.
gas cuts cost of making beer barrels	157	Apr.
large volume water heating		
see *Water Heating*		

	Page	Issue
polishing gray and malleable irons for metallographic examinations—R. Schneidewind	13	Jan.
research—		
combustion space requirements in high temperature furnaces—E. W. Mattocks		
Part 1	289	July
Part 2	323	Aug.
effect of direct firing on wall tile glazes—A. P. Watts	131	Apr.
furnace atmospheres and steel—C. Upthegrove	181	May
high temperature combustion—E. E. McCormick	468	Nov.
research points way to silent industrial gas utilization—D. W. Chapman	467	Nov.
scaling of steel at heat treating temperatures	504	Dec.
small automatic stokers vs. natural gas—C. W. Smith	253	June
story told by window displays—S. Bratesman	125	Apr.
utilization—		
continuous glass furnace and automatic bottle forming machines—J. B. Nealey	18	Jan.
gas furnishes heat, light and power in office building—J. B. Nealey	374	Sept.
heat treating rifle parts—J. B. Nealey	460	Nov.
pretzel makers bake with gas	151	Apr.
rubber tires made by gas at Chicago Fair—J. B. Nealey	321	Aug.
sewage to fertilizer in rotary dryers—J. B. Nealey	106	Mar.
steel enameling in automatic furnaces—J. B. Nealey	238	June
terra cotta makers find gas meets color demand—J. B. Nealey	53	Feb.
utilization data—what it means to you—R. L. Manier	255	June
Infra-red rays introduced in England to fight disease	141	Apr.
International gas conference and A.G.A. convention, see *Convention, A.G.A.*		
International gas conference promotes gas progress—F. Escher	410	Oct.

J

Jordan, Virgil, heads industrial board	5	Jan.

K

Kansas anti-merchandising act is held invalid	271	July
Kentucky association officers elected	58	Feb.
Kitchen planning:		
Century of Progress in kitchens	330	Aug.
kitchens of many lands featured at Exposition	376	Sept.
model gas kitchen increases sales for Philadelphia store	275	July
service for Mrs. Homemaker	221	May

L

Leakage, effect of, on shade trees—C. G. Deuber	465	Nov.
Legislation:		
Kansas anti-merchandising act held invalid	271	July
Maryland law protects company property	241	June
pending legislation concerning utilities—R. Garrett	506	Dec.
rehearing denied in Kansas case	479	Nov.
stop non-merchandising legislation—W. A. Patterson	52	Feb.
utility-dealer cooperation vs. legislation	163	Apr.
voters reject city ownership plans	497	Dec.
Lighting:		
gaseous lighting wins at Chicago Fair	309	Aug.
London's streets lighted with gas	81	Mar.
picture commemorates first display in America	171	May
Liquefied petroleum gases:		
butane plant's first year shows good results	215	May

M

	Page	Issue
Main "stopper," mechanical, developed	111	Mar.
Maryland law protects gas company property	241	June
Merchandising:		
A.G.A. domestic range campaign	7	Jan.
dealer cooperation see *Trade Relations*		
Kansas anti-merchandising act held invalid	271	July
Niagara Hudson starts promotional plan	5	Jan.
Philadelphia utilities sell 3370 radiant heaters—J. McKinley	280	July
special promotional rate for "tell them about cooking-with-gas" campaign	112	Mar.
what price new business?—M. DellPlain	426	Oct.
see also *Sales*		
Metallurgy:		
furnace atmospheres and steel—C. Upthegrove	181	May
polishing gray and malleable irons for metallographic examinations—R. Schneidewind	13	Jan.
scaling of steel at heat treating temperatures	504	Dec.
steel enameling in automatic furnaces—J. B. Nealey	238	June
Meter orifices, expansion correction of contraction coefficient of—A. Busemann	476	Nov.
Meter readings, missed, importance of following up—J. G. Waddick	153	Apr.
Middleworth, H. V., heads state association	50	Feb.
Mid-West sales conference	25	Jan.
	60	Feb.
Mitchell, S. Z., retires from Bond and Share Co.	184	May
Mixed gas planned for Minneapolis	338	Aug.
Mixed gas research summary available	71	Feb.
Mixing:		
butane-air, at laboratory	203	May
gas mixing—R. M. Conner	188	May
Model home uses gas throughout—R. M. Fiske	487	Dec.
Munroe award conferred upon Dr. Hainesworth	438	Oct.

N

National Association of Master Plumbers convention, A.G.A. participation in	319	Aug.
National food show, all gas cookery at	3	Jan.
N.R.A. code:		
gas operating utility industry	364	Sept.
natural gas industry	365	Sept.
preparation of	363	Sept.
Natural gas:		
an outsider looks at the industry—C. G. Ketchum	162	Apr.
convention to be held in Chicago	362	Sept.
development in Santa Monica district	26	Jan.
engineering course offered at Okla. U	108	Mar.
fourteen N. Y. counties produce natural gas	127	Apr.
new pool opens in Michigan	213	May
odorization at Edmonton, Canada	26	Jan.
public information aspects of changeover in San Diego—D. H. Perkins	27	Jan.
wrinkle contest proves popular	109	Mar.
New England Gas Association, history of—C. Belden	242	June
Niagara Hudson starts promotional plan	5	Jan.
Nichols, W. B., honored by associates	498	Dec.
Noise abatement:		
research points way to silent industrial gas utilization—D. W. Chapman	467	Nov.

O

Obituary:		
Barton, William H.	19	Jan.
Brown, Miles E.	100	Mar.
Clark, William Judson	272	July
Hintze, Thomas H.	19	Jan.
Hodenpyl, Anton G.	254	June
Hulswit, Frank T.	195	May

	Page	Issue
Kaeuffer, Edouard	413	Oct.
Kunberger, A. F.	137	Apr.
Livingston, R. E.	74	Feb.
Lynch, Eugene P.	114	Mar.
McLean, George	58	Feb.
Morris, Henry C.	372	Sept.
Munroe, Mrs. Charles A.	114	Mar.
Newman, Howard H.	418	Oct.
Richman, Harry H.	212	May
Rogers, Fred W.	19	Jan.
Ruud, Edwin	19	Jan.
Shanahan, Fred L.	208	May
Staniford, A. F.	522	Dec.
Tow, Oscar C.	114	Mar.
Wallace, R. A.	19	Jan.
Oceanographic laboratory, gas utilized in	26	Jan.
Odorization at Edmonton, Canada	26	Jan.
Office management—"share-the-work" programs—L. M. Ayres	205	May
Oil gas:		
recirculated process—E. S. Pettyjohn	340	Aug.
use of high B.t.u. oil gas during peak load—F. Wills	240	June
Oil vs. gas-burning ranges—C. H. French	210	May
Oklahoma Natural buys two properties	241	June
Oklahoma production reaches high figure	477	Nov.
Orifices, expansion correction on contraction coefficient of—A. Busemann	476	Nov.

P

Peak load:		
recirculated oil gas process—E. S. Pettyjohn	340	Aug.
use of high B.t.u. oil gas during—F. Wills	240	June
Philadelphia Gas Works reconstruction plan	127	Apr.
Pipe corrosion:		
research application to Southern soils—Dr. Scott Ewing	298	July
Pipe joints:		
committee meeting	260	June
earthquake effect on—A. F. Bridge	175	May
welded, laboratory starts research on	103	Mar.
Plant physiology:		
accelerating seed germination with gas—C. G. Deuber	313	Aug.
observations of shade trees in the vicinity of gas leaks—C. G. Deuber	465	Nov.
stimulative effects of gas on small trees—C. G. Deuber	380	Sept.
Polish viewpoint of American gas industry—G. Malecki	11	Jan.
Production and chemical conference	214	May
	297	July
Publicity and industry—A. P. Ryan	436	Oct.
Public relations:		
and the depression—R. F. Bonsall	332	Aug.
aspects of natural gas changeover in San Diego—D. H. Perkins	27	Jan.
Public utilities association secretaries meet	31	Jan.
Purging holders	260	June

R

Radiant heaters, Philadelphia utilities sell 3370—J. McKinley	280	July
Radiation:		
England introduces infra-red rays to fight disease	141	Apr.
Ranges:		
gas sales 10 times electric	219	May
oil vs. gas-burning ranges—C. H. French	210	May
see also *Cooking*		
Rates:		
lower gas, electric and telephone rates?—*The Sun*	204	May
single rate for residential consumers	14	Jan.
special promotional, for "tell them about cooking-with-gas" campaign	112	Mar.
Staten Island rates lowered	62	Feb.
Tampa rates lowered	12	Jan.
Rate Structure:		
cost allocation of natural gas production and pipe line companies—R. A. Ransom	368	Sept.
Refrigeration:		
air-cooled Electrolux well received	209	May
air-cooled refrigerator making sales history	252	June
Brooklyn sets record in sales	434	Oct.
Electrolux introduces air-cooled unit—F. E. Sellman	136	Apr.
companies enter prize contest	377	Sept.
30,000 refrigerators—E. J. Devlin	138	Apr.
traveling laboratory equipped with refrigerator	21	Jan.
Regulation:		
new concept in—H. L. Hooker	414	Oct.
Research:		
glimpse of, at A.G.A. testing laboratory—R. M. Conner	310	Aug.
see also *Industrial Gas Research*		
Rubber tires made by gas at Chicago—J. B. Nealey	321	Aug.

S

Safety:		
see *Accident Prevention*		
Sales:		
competitive situation in—G. W. Turner	284	July
conferences—		
Eastern natural gas	64	Feb.
Mid-West regional	60	Feb.
Southwest regional	60	Feb.
executive evaluation of activities—E. M. Tharp	146	Apr.
executive responsibility for promotion—E. M. Tharp	421	Oct.
heating, increased by aggressive campaign—W. L. Jones	317	Aug.
165 house heating jobs a day in Chicago—P. A. Jenkins	489	Dec.
industry planning greater—C. N. Lauer	419	Oct.
Pittsburgh campaign sells 14,127 space heaters in 24 days—G. W. Ratcliffe	493	Dec.
promotional campaign plans announced	208	May
refrigerator, Brooklyn sets record in	434	Oct.
trend of water heater sales from manufacturer's viewpoint—A. M. Apmann	101	Mar.
what price new business—M. DellPlain	426	Oct.
see also *Merchandising*		
Seed germination, accelerating with gas—C. G. Deuber	313	Aug.
Shannahan, J. N., named to head Midland United company	18	Jan.
Sharpe, Henry D., heads New England council	14	Jan.
Smoke abatement:		
gas makes fewer chimneys to sweep	496	Dec.
new book portrays picture of smoke evil—F. W. Parsons	316	Aug.
Southern Gas association, history of—S. L. Drumm.	15	Jan.
Southwest sales conference to open	60	Feb.
Space heaters, Pittsburgh campaign sells 14,127—G. W. Ratcliffe	493	Dec.
Statistics:		
gas production in important countries	57	Feb.
gas revenues decline in 1932	5	Jan.
monthly summary of gas company statistics—Paul Ryan	32	Jan.

	Page	Issue
.....	72	Feb.
.....	113	Mar.
.....	166	Apr.
.....	220	May
.....	261	June
.....	301	July
.....	348	Aug.
.....	392	Sept.
.....	440	Oct.
.....	478	Nov.
.....	520	Dec.
Steam generation:		
application of gas fuel to coal-fired boilers—H. F. Rehfeldt	158	Apr.
Steel enameling in automatic furnaces—J. B. Nealey	238	June
Stimulating effect of gas on small trees—C. G. Deuber	380	Sept.

T

Taxation of non-residents in Canada modified.....	497	Dec.
Technical:		
breeze problem, study of, in by-product coke oven plant—R. E. Kruger.....	295	July
recirculated oil gas process—E. S. Pettyjohn.....	340	Aug.
section activities—		
managing committee hears progress reports....	259	June
managing committee meets in Cleveland.....	29	Jan.
review of activities—J. A. Perry.....	439	Oct.
Testing:		
A. G. A. laboratory exposes gas "savers".....	457	Nov.
A.G.A. testing and certification program expanded —F. R. Wright.....	200	May
approval seal mandatory on approved appliances..	202	May
research at A. G. A. testing laboratory—R. M. Conner	310	Aug.
see also *Appliance Standards*		
Tonkin, J. B., elected head of Peoples Natural.....	338	Aug.

	Page	Issue
Trade relations:		
A.G.A. participates in meeting of master plumbers	319	Aug.
cooperative selling increases load and aids dealers —W. J. Cashman and F. S. Hoefer.....	94	Mar.
Massachusetts plumbers approve Boston sales policy	22	Jan.
more dealers cooperate to sell equipment.....	89	Mar.
utility-dealer cooperation vs. legislation.....	163	Apr.
utilizing plumber dealer to receive service applications—H. R. Jesper.....	99	Mar.

W

Water heater:		
changes in requirements.....343		Aug.
trend of sales from manufacturers' viewpoint— A. P. Apmann.....	101	Mar.
Water heater tanks:		
corrosion prevention in storage tanks—W. P. Cook and H. W. Smith, Jr.....	345	Aug.
protective relief and gas shut-off devices for—H. W. Smith, Jr.....	501	Dec.
Water heating, large volume:		
as summer load—H. J. Long.....	234	June
complementary load—E. J. Devlin.....	185	May
promotional rate to improve load factor—S. B. Finch	23	Jan.
Weld test indicator developed at A.G.A. laboratory..	475	Nov.
Window displays:		
telling the story of industrial gas—S. Bratesman..	125	Apr.
Wisconsin utilities merge.....	89	Mar.
Women's magazines stress value of gas.....	387	Sept.
World power conference, A.G.A. presents paper at..	130	Apr.

Y

Yale Divinity school uses gas to heat 19 buildings....	124	Apr.